

## Patent claims

1. A suspension of poorly water-soluble calcium salts, chosen from phosphates, fluorides and fluorophosphates, in a liquid medium in which these salts are insoluble or poorly soluble, characterized in that the calcium salts are present in the form of primary particles having diameters of from 5 to 50 nanometers and lengths of from 10 to 150 nanometers and are stabilized against agglomerization by a content of at least 0.01% by weight, based on the weight of the suspension, of a water-soluble surfactant or of a water-soluble polymeric protective colloid.

2. The suspension as claimed in claim 1, characterized in that 1 to 40% by weight of the poorly soluble calcium salts and, for the stabilization, 0.1 to 10% by weight, based on the weight of the poorly soluble calcium salt, of a water-soluble surfactant or of a water-soluble polymeric protective colloid are present in the suspension.

3. The suspension as claimed in claim 1 or 2, characterized in that, for the stabilization, nonionic surfactants are present in an amount of from 1 to 10% by weight, based on the weight of the poorly soluble calcium salt.

4. A process for the preparation of the suspension as claimed in claim 1-3 by precipitation processes from aqueous solutions of water-soluble calcium salts and aqueous solutions of water-soluble phosphate or fluoride salts, characterized in that the precipitation is carried out in the presence of

water-soluble surfactants or water-soluble polymeric protective colloids.

5. A process for the preparation of the suspension as claimed in claim 1-3 by precipitation from an acidic solution of a water-soluble calcium salt and a stoichiometric amount of a water-soluble phosphate salt with a pH below 3 by increasing the pH using aqueous alkalis or ammonia in the presence of water-soluble surfactants or water-soluble polymeric protective colloids.

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15. The use of the suspension as claimed in any of claims 1-3 as remineralizing component in compositions for the cleaning and care of teeth.

20. A toothpaste with a content of silica polishing agents, humectants, binders and aromas, characterized in that 0.1-5% by weight of fine calcium salts from the group amorphous calcium phosphate, hydroxylapatite, fluorapatite and calcium fluoride are present in the form of a suspension as claimed in claim 1-3.

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